

USSN 10/738,413

EXHIBIT 1

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siRNA Target Finder

1. Paste your mRNA sequence (5' to 3'): (Please ensure that sequence contains no numbers.)

```
tattgagttcttcaacatgtagccttttatggctctgagaaataactaccttaaac  
ccataatcttaatacttctctaaacttcttaataagagaagctctatctcgacactac  
ctctcattgcaaggccaatcatcattagttttagtgcttctaactgggttgcttag  
gtcaggcctattattactaaaccttattgtaatatcttaaccataagaattaaactatt  
aattgggaatagatttttcactttaaactagggctatccactgtgggatacagcca
```

2. End my siRNAs with:

TT UU

3. G/C content maximum (optional):

All G/C Contents

4. Sequence constraints to avoid:

- ☐ 4 or more A's or T's in a row (recommended for vectors with pol III promoter)
- ☐ 4 or more G's or C's in a row (recommended for chemically synthesized siRNA)

Target sequence 1: AAACATTGTAGCCTCTTTATG

Blast search (in new window)

Position in gene sequence: 14

GC content: 33.3%

Sense strand siRNA: ACAUUGUAGCCUCUUUAUGt

Antisense strand siRNA: CAUAAAGAGGCUACAAGUtt

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Target sequence 2: AAATAACTACCTAAACCCAT

Blast search (in new window)

Position in gene sequence: 44

GC content: 28.6%

Sense strand siRNA: AUAACUACCUUAAACCAUtt

Antisense strand siRNA: AUGGGUUUAAAGGUAGUUAUtt

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Target sequence 3: AACTACCTTAAACCCATAATC

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Blast search (in new window)

Position in gene sequence: 48

GC content: 33.3%

Sense strand siRNA: CUACCUUAAACCCAUAAUCtt

Antisense strand siRNA: GAUUAUGGUGUUUAAGGUAGtt

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Position in gene sequence: 57

GC content: 23.8%

Sense strand siRNA: ACCCAUAAUCUUUAAUACUtt

Antisense strand siRNA: AGUUAUAAAGAUUAUGGGUtt

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Position in gene sequence: 65

GC content: 23.8%

Sense strand siRNA: UCUUUAUACUUCUAAACtt

Antisense strand siRNA: GUUUAAGGAAGUAUUAAGAtt

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Position in gene sequence: 72

GC content: 23.8%

Sense strand siRNA: UACUUCUAAACUUUCUAtt

Antisense strand siRNA: UAAGAAAGUUUAGGAAGUAtt

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Position in gene sequence: 82

GC content: 23.8%

Sense strand siRNA: ACUUUCUUAUUAAGAGAAGtt

Antisense strand siRNA: CUUCUCUUAUUAAGAAAGUtt

View siRNA details**View** corresponding *Silencer*® siRNA Construction Kit Templates**View** corresponding insert sequences for an siRNA expression vector (e.g., *pSilencer*™)**Target sequence 8:** AATAAGAGAAGCTCTATTCTT**Blast search** (in new window)

Position in gene sequence: 92

GC content: 33.3%

Sense strand siRNA: UAAGAGAAGCUCUAUUCUtt

Antisense strand siRNA: AGGAUAGAGCUUCUCUAtt

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Target sequence 9: AAGAGAAGCTCTATTCTGAC

Blast search (in new window)

Position in gene sequence: 95

GC content: 42.9%

Sense strand siRNA: GAGAAGCUCUAUUCUGACtt

Antisense strand siRNA: GUCAGGAUAGAGCUUCUctt

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Target sequence 10: AAGCTCTATTCTGACACTAC

Blast search (in new window)

Position in gene sequence: 100

GC content: 42.9%

Sense strand siRNA: GCUCUAUUCUGACACUACtt

Antisense strand siRNA: GUAGUGUCAGGAUAGAGCtt

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Target sequence 11: AAGGTCAAATCATCATTAGTT

Blast search (in new window)

Position in gene sequence: 132

GC content: 28.6%

Sense strand siRNA: GGUCAAAUCAUUAUAGUtt

Antisense strand siRNA: AACUAAUGAUGAUUUGACctt

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Target sequence 12: AAATCATCATTAGTTTGTAG

Blast search (in new window)

Position in gene sequence: 138

GC content: 23.8%

Sense strand siRNA: AUCAUCAUUAGUUUUGUAGtt

Antisense strand siRNA: CUACAAAACUAAUGAUGAUtt

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Target sequence 13: AACTGGGTTTGCTTAGGTCAG

Blast search (in new window)

Position in gene sequence: 165

GC content: 47.6%

Sense strand siRNA: CUGGGUUUGCUUAGGUCAGtt

Antisense strand siRNA: CUGACCUAAGCAAACCCAGtt

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Target sequence 14: AACCTATTGTTAATATTCTA

Blast search (in new window)

Position in gene sequence: 200

GC content: 19%

Sense strand siRNA: CCUUAUUGUUAUUAUUCUatt

Antisense strand siRNA: UAGAAUUAUUAACAAUAGGtt

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Target sequence 15: AATATTCTAACCATAGAAAT

Blast search (in new window)

Position in gene sequence: 212

GC content: 19%

Sense strand siRNA: UAUUCUACCAUAAGAAUUt

Antisense strand siRNA: AAUUCUUAUGGUUAGAAUatt

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Target sequence 16: AACCATAAGAATTAACTATT

Blast search (in new window)

Position in gene sequence: 220

GC content: 19%

Sense strand siRNA: CCAUAAGAAUUAACUAAUUt

Antisense strand siRNA: AAUAGUUUAAUUCUUAUGGtt

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Target sequence 17: AAGAATTAACTATTATGGT

Blast search (in new window)

Position in gene sequence: 226

GC content: 19%

Sense strand siRNA: GAAUUAACUUAUUAUGGUTT

Antisense strand siRNA: ACCAUAAUAGUUUAAUUCtt

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Target sequence 18: AATTAACATTATATGGTGAA

Blast search (in new window)

Position in gene sequence: 229

GC content: 19%

Sense strand siRNA: UUAACUUAUUAUGGUGAAtt

Antisense strand siRNA: UUCACCAUUAUAGUUUAAtt

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Target sequence 19: AAACATTATATGGTGAATAGA

Blast search (in new window)

Position in gene sequence: 233

GC content: 23.8%

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Antisense strand siRNA: UCUAUUCACCAUUAUAGUtt

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Target sequence 20: AATGGTGAATAGAGTTTTCa

[Blast search](#) (in new window)

Position in gene sequence: 241

GC content: 28.6%

Sense strand siRNA: UGGUGAAUAGAGUUUUUcAtt

Antisense strand siRNA: UGAAAAACUCUAUUCACCAtt

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Target sequence 21: AATAGAGTTTTCACTTTAAC

[Blast search](#) (in new window)

Position in gene sequence: 248

GC content: 23.8%

Sense strand siRNA: UAGAGUUUUACUUUAACtt

Antisense strand siRNA: GUUAAAGUGAAAAACUCUatt

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Target sequence 22: AACATAGGCCATCCCACTGG

[Blast search](#) (in new window)

Position in gene sequence: 266

GC content: 52.4%

Sense strand siRNA: CAUAGCCCUAUCCACUGGtt

Antisense strand siRNA: CCAGUGGGAUAGGCCUaugtt

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Target sequence 23: AATTCGAAAGAAAAGTCAGTC

[Blast search](#) (in new window)

Position in gene sequence: 300

GC content: 33.3%

Sense strand siRNA: UUCGAAAGAAAAGUCAGUCtt

Antisense strand siRNA: GACUGACUUUUCUUUCGAatt

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Target sequence 24: AAAGAAAAGTCAGTCATGTGC

[Blast search](#) (in new window)

Position in gene sequence: 306

GC content: 38.1%

Sense strand siRNA: AGAAAAGUCAGUCAUGUGCtt

Antisense strand siRNA: GCACAUGACUGACUUUUCUtt

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Target sequence 25: AAAAGTCAGTCATGTGCTTTT

Blast search (in new window)

Position in gene sequence: 310

GC content: 33.3%

Sense strand siRNA: AAGUCAGUCAUGGCUUUUtt

Antisense strand siRNA: AAAAGCACAUAGACUGACUtt

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Target sequence 26: AAGTCAGTCATGTGCTTTTCA

Blast search (in new window)

Position in gene sequence: 312

GC content: 38.1%

Sense strand siRNA: GUCAGUCAUGGCUUUUcAt

Antisense strand siRNA: UGAAAAGCACAUAGACUGAcTt

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Target sequence 27: AAAGCTTAAGATAAAGACTAA

Blast search (in new window)

Position in gene sequence: 340

GC content: 23.6%

Sense strand siRNA: AGCUUAGAUAAAGACUAAtt

Antisense strand siRNA: UUAGUCUUUAUCUUAGCUtt

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Target sequence 28: AAGATAAAGACTAAAAGTGT

Blast search (in new window)

Position in gene sequence: 347

GC content: 23.8%

Sense strand siRNA: GAUAAAGACUAAAAGUGUtt

Antisense strand siRNA: AACACUUUAGUCUUUAUcTt

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Target sequence 29: AAAGACTAAAAGTGTGATG

Blast search (in new window)

Position in gene sequence: 352

GC content: 28.6%

Sense strand siRNA: AGACUAAAAGUGUUUGAUgTt

Antisense strand siRNA: CAUCAACACUUUAGUCUtt

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Target sequence 30: AAAAGTGTGATGCTGGAGG

Blast search (in new window)

Position in gene sequence: 359

GC content: 42.9%

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Sense strand siRNA: AAGUGUUUGAUGCUGGAGGtt

Antisense strand siRNA: CCUCCAGCAUCAACACUttt

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Target sequence 31: AAGTGTGTGATGCTGGAGGTG

Blast search (in new window)

Position in gene sequence: 361

GC content: 47.6%

Sense strand siRNA: GUGUUUGAUGCUGGAGGUGtt

Antisense strand siRNA: CACCUCCAGCAUCAACACtt

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Target sequence 32: AAGACATGTGATAATCACTGT

Blast search (in new window)

Position in gene sequence: 408

GC content: 33.3%

Sense strand siRNA: GACAUGUGAUAAUCACUGUtt

Antisense strand siRNA: ACAGUGAUUUAUCACAGUCtt

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Target sequence 33: AATCACTGTAGTAGTCTGG

Blast search (in new window)

Position in gene sequence: 420

GC content: 42.9%

Sense strand siRNA: UCACUGUAGUAGUAGCUGGtt

Antisense strand siRNA: CCAGCUACUACUACAGUGatt

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Target sequence 34: AAAGAGAAATCTGTGACTCCA

Blast search (in new window)

Position in gene sequence: 441

GC content: 38.1%

Sense strand siRNA: AGAGAAAUCUGUGACUCCatt

Antisense strand siRNA: UGGAGUCACAGAUUUCUCutt

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Target sequence 35: AAATCTGTGACTCCAATTAGC

Blast search (in new window)

Position in gene sequence: 447

GC content: 38.1%

Sense strand siRNA: AUCUGUGACUCCAAUUGGtt

Antisense strand siRNA: GCUAAUUGGAGUCACAGAUtt

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Target sequence 36: AATTAGCCAGTTCCTGCAGAC

Blast search (in new window)

Position in gene sequence: 461

GC content: 47.6%

Sense strand siRNA: UUAGCCAGUUCUGCAGACtt

Antisense strand siRNA: GUUCUGCAGAACUGGCUAAtt

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Target sequence 37: AAGAATGCTCCTGGCTGTTT

Blast search (in new window)

Position in gene sequence: 499

GC content: 42.9%

Sense strand siRNA: GAAUGCUCUGGCUGUUUtt

Antisense strand siRNA: AAAACAGCCAGGAGCAUUCtt

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Target sequence 38: AATGCTCCTGGCTGTTTGTGA

Blast search (in new window)

Position in gene sequence: 502

GC content: 42.9%

Sense strand siRNA: UGCUCUGGCUGUUUUUAtt

Antisense strand siRNA: UACAAACAGCCAGGAGCAtt

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Target sequence 39: AAGAACCTGATGGAGAAGGAA

Blast search (in new window)

Position in gene sequence: 584

GC content: 42.9%

Sense strand siRNA: GAACCUAUGGAGAAGGAAtt

Antisense strand siRNA: UUCUUCUCCAUACAGGUUtt

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Target sequence 40: AACCTGATGGAGAAGGAATGC

Blast search (in new window)

Position in gene sequence: 587

GC content: 47.6%

Sense strand siRNA: CCUGAUGGAGAAGGAAUGCtt

Antisense strand siRNA: GCAUUCUUCUCCAUACAGtt

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Target sequence 41: AAGGAATGCTGTCCACCGTG

Blast search (in new window)

Position in gene sequence: 599

GC content: 57.1%

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Sense strand siRNA: GGAAUGCUGUCCACCGUGGtt

Antisense strand siRNA: CCACGUGGACAGCAUJCtt

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Target sequence 42: AATGCTGTCCACCGTGGAGCG

Blast search (in new window)

Position in gene sequence: 603

GC content: 61.9%

Sense strand siRNA: UGCUGUCCACCGUGGAGCGtt

Antisense strand siRNA: CGCUCCACGGUGGACAGCAtt

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Target sequence 43: AATATCCTCTCTGTCCAATGCA

Blast search (in new window)

Position in gene sequence: 671

GC content: 38.1%

Sense strand siRNA: UAUCCUUCUGUCCAUGCAtt

Antisense strand siRNA: UGCAUUGGACAGAGGAUAtt

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Target sequence 44: AATGCACCACTYGGGCTCAA

Blast search (in new window)

Position in gene sequence: 686

GC content: 52.4%

Sense strand siRNA: UGCACCAUUGGGCCUCAAtt

Antisense strand siRNA: UUGAGGCCCAAGUGGUGCAtt

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Target sequence 45: AATTTCCTTCACAGGGTGG

Blast search (in new window)

Position in gene sequence: 705

GC content: 52.4%

Sense strand siRNA: UUUCCCUUCACAGGGGUGGtt

Antisense strand siRNA: CCACCCUUGUAAGGGAAAtt

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Target sequence 46: AATAGGACCTGCCAGTGCTCT

Blast search (in new window)

Position in gene sequence: 758

GC content: 52.4%

Sense strand siRNA: UAGGACCUGCCAGUGCUCtt

Antisense strand siRNA: AGAGCACUGGCAGGUCCUAtt

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Target sequence 47: AACTTCATGGGATTCAACTGT

Blast search (in new window)

Position in gene sequence: 782

GC content: 38.1%

Sense strand siRNA: CUUCAUGGGAAUACAUGUtt

Antisense strand siRNA: ACAGUUGAAUCCCAUGAAGtt

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Target sequence 48: AACTGTGGAACTGCAAGTTT

Blast search (in new window)

Position in gene sequence: 797

GC content: 38.1%

Sense strand siRNA: CUGUGGAAACUGCAAGUUUtt

Antisense strand siRNA: AAACUUGCAGUUUCCACAGtt

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Target sequence 49: AAACGTGCAAGTTTGGCTTTTG

Blast search (in new window)

Position in gene sequence: 805

GC content: 38.1%

Sense strand siRNA: ACUGCAAGUUUUGCUUUUUGtt

Antisense strand siRNA: CAAAAGCCAAACUGCAGUtt

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Target sequence 50: AAGTTTGGCTTTTGGGGACCA

Blast search (in new window)

Position in gene sequence: 812

GC content: 47.6%

Sense strand siRNA: GUUUGGCUUUUUGGGACCAtt

Antisense strand siRNA: UGGUCCCCAAAGCCAAActt

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Target sequence 51: AAACGTGACAGAGACGACT

Blast search (in new window)

Position in gene sequence: 832

GC content: 47.6%

Sense strand siRNA: ACUGCACAGAGACGACUtt

Antisense strand siRNA: AGUCGUCUCUCUGGACAGtt

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Target sequence 52: AAGAAACATCTTCGATTGAG

Blast search (in new window)

Position in gene sequence: 862

GC content: 33.3%

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Sense strand siRNA: GAAACAUCUUCGAUUUGAGUtt

Antisense strand siRNA: CUCAAUUCGAAGAUUUUCtt

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Position in gene sequence: 865

GC content: 38.1%

Sense strand siRNA: ACAUCUUCGAUUUGAGUGCtt

Antisense strand siRNA: GCACUCAAUUCGAAGAUUGtt

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Position in gene sequence: 893

GC content: 33.3%

Sense strand siRNA: GGACAAUUUUUUGCCUACtt

Antisense strand siRNA: GUAGGCAAAAAUUUGUCtt

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Position in gene sequence: 899

GC content: 33.3%

Sense strand siRNA: AUUUUUUGCCUACCUACtt

Antisense strand siRNA: AGUGAGGUAGGCAAAAAUtt

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Position in gene sequence: 925

GC content: 42.9%

Sense strand siRNA: AGCAUACCAUCAGCUCAGatt

Antisense strand siRNA: UCUGAGCUGAUGGUAUGCtt

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Position in gene sequence: 975

GC content: 28.6%

Sense strand siRNA: AUGAAAAUGGAUCAACACTt

Antisense strand siRNA: GUGUUGAUCCAUUUUUCAutt

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Target sequence 58: AAAAATGGATCAACACCCATG

Blast search (in new window)

Position in gene sequence: 980

GC content: 38.1%

Sense strand siRNA: AA AUGGAUCAACACCCAUGtt

Antisense strand siRNA: CAUGGGUGUUGAUCCAUUUtt

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Target sequence 59: AAATGGATCAACACCCATGTT

Blast search (in new window)

Position in gene sequence: 982

GC content: 38.1%

Sense strand siRNA: AUGGAUCAACACCCAUGUtt

Antisense strand siRNA: AACAUGGGUGUUGAUCCAUtt

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Target sequence 60: AACACCCATGTTTACGACAT

Blast search (in new window)

Position in gene sequence: 991

GC content: 38.1%

Sense strand siRNA: CACCCAUGUUUAACGACAUtt

Antisense strand siRNA: AUGUCGUUAAACAUGGGUGtt

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Target sequence 61: AACGACATCAATATTATGAC

Blast search (in new window)

Position in gene sequence: 1004

GC content: 28.6%

Sense strand siRNA: CGACAUCAUUAUUUAUGACtt

Antisense strand siRNA: GUCAUAAUUAUGAUGUCGtt

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Target sequence 62: AATATTATGACCTCTTTGTC

Blast search (in new window)

Position in gene sequence: 1013

GC content: 28.6%

Sense strand siRNA: UAUUUUAUGACCUCUUUGUCtt

Antisense strand siRNA: GACAAAGAGGUCAUAAAUtt

View siRNA details

View corresponding *Silencer*® siRNA Construction Kit Templates

View corresponding insert sequences for an siRNA expression vector (e.g., *pSilencer*[™])

Target sequence 63: AATGGATGCACTGCTTGGGGG

Blast search (in new window)

Position in gene sequence: 1054

GC content: 57.1%

USSN 10/738,413

EXHIBIT 1

Sense strand siRNA: UGGAUGCACUGCUUGGGGgt

Antisense strand siRNA: CCCCCAAGCAGUGCAUCCatt

View siRNA details

View corresponding *Silencer*® siRNA Construction Kit Templates

View corresponding insert sequences for an siRNA expression vector (e.g., p*Silencer*™)

Target sequence 64: AAATCTGGAGAGACATTGATT

Blast search (in new window)

Position in gene sequence: 1080

GC content: 33.3%

Sense strand siRNA: AUCUGGAGAGACAUUGAUUtt

Antisense strand siRNA: AAUCAAUUCUCUCCAGAUtt

View siRNA details

View corresponding *Silencer*® siRNA Construction Kit Templates

View corresponding insert sequences for an siRNA expression vector (e.g., p*Silencer*™)

Target sequence 65: AAGCACCAAGCTTTCTGCCTT

Blast search (in new window)

Position in gene sequence: 1110

GC content: 47.6%

Sense strand siRNA: GCACCAGCUUUUCUGCCUtt

Antisense strand siRNA: AAGGCAGAAAAGCUGGUGCtt

View siRNA details

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View corresponding insert sequences for an siRNA expression vector (e.g., p*Silencer*™)

Target sequence 66: AACAAAGAAATCCAGAAGCTGA

Blast search (in new window)

Position in gene sequence: 1158

GC content: 38.1%

Sense strand siRNA: CAAGAAAUCCAGAAGCUGAtt

Antisense strand siRNA: UCAGCUUCUGGAUUUCUgtt

View siRNA details

View corresponding *Silencer*® siRNA Construction Kit Templates

View corresponding insert sequences for an siRNA expression vector (e.g., p*Silencer*™)

Target sequence 67: AAGAAATCCAGAAGCTGACAG

Blast search (in new window)

Position in gene sequence: 1161

GC content: 42.9%

Sense strand siRNA: GAAAUCCAGAAGCUGACAgtt

Antisense strand siRNA: CUGUCAGCUUCUGGAUUUctt

View siRNA details

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View corresponding insert sequences for an siRNA expression vector (e.g., p*Silencer*™)

Target sequence 68: AAATCCAGAAGCTGACAGGAG

Blast search (in new window)

Position in gene sequence: 1164

GC content: 47.6%

Sense strand siRNA: AUCCAGAAGCUGACAGGAgtt

Antisense strand siRNA: CUCCUGUCAGCUUCUGGAUtt

View siRNA details

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View corresponding insert sequences for an siRNA expression vector (e.g., p*Silencer*™)

USSN 10/738,413

EXHIBIT 1

Target sequence 69: AAGCTGACAGGAGATGAAAC

Blast search (in new window)

Position in gene sequence: 1172

GC content: 42.9%

Sense strand siRNA: GCUGACAGGAGAUGAAACtt

Antisense strand siRNA: GUUUUCAUCUCCUGUCAGCtt

View siRNA details

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View corresponding insert sequences for an siRNA expression vector (e.g., *pSilencer*™)

Target sequence 70: AAAACTTCACTATTCATATT

Blast search (in new window)

Position in gene sequence: 1188

GC content: 23.8%

Sense strand siRNA: AACUUCACUAUCCAUUUtt

Antisense strand siRNA: AAUAUGGAUAGUGAAGUtt

View siRNA details

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Target sequence 71: AACTTCACTATTCATATTGG

Blast search (in new window)

Position in gene sequence: 1190

GC content: 33.3%

Sense strand siRNA: CUUCACUAUCCAUUUGGtt

Antisense strand siRNA: CCAAUUGGAUAGUGAAGtt

View siRNA details

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View corresponding insert sequences for an siRNA expression vector (e.g., *pSilencer*™)

Target sequence 72: AAAAGTGTGACATTTCACAG

Blast search (in new window)

Position in gene sequence: 1227

GC content: 38.1%

Sense strand siRNA: AAGUGUGACAUUUGCACAGtt

Antisense strand siRNA: CUGUGCAAUUGUCACACUtt

View siRNA details

View corresponding *Silencer*® siRNA Construction Kit Templates

View corresponding insert sequences for an siRNA expression vector (e.g., *pSilencer*™)

Target sequence 73: AAGTGTGACATTTCACAGAT

Blast search (in new window)

Position in gene sequence: 1229

GC content: 38.1%

Sense strand siRNA: GUGUGACAUUUGCACAGAUtt

Antisense strand siRNA: AUCUGUGCAAUUGUCACACtt

View siRNA details

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View corresponding insert sequences for an siRNA expression vector (e.g., *pSilencer*™)

Target sequence 74: AAATCCTAACTTACTAGCCC

Blast search (in new window)

Position in gene sequence: 1276

GC content: 42.9%

USSN 10/738,413

EXHIBIT 1

Sense strand siRNA: AUCCUAAACUUACUCAGCCCTt

Antisense strand siRNA: GGGCUGAGUAGUUAGGAUtt

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Target sequence 75: AACTTACTCAGCCGACATCA

[Blast search](#) (in new window)

Position in gene sequence: 1283

GC content: 47.6%

Sense strand siRNA: CUUACUCAGCCGACUACAt

Antisense strand siRNA: UGAUGCUGGGCUGAGUAGGtt

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Target sequence 76: AACGCCATCAGTCTTTATGC

[Blast search](#) (in new window)

Position in gene sequence: 1349

GC content: 42.9%

Sense strand siRNA: CAGCCAUACAGUCUUUAUGCtt

Antisense strand siRNA: GCAUAAAGACUGAUGGCUGtt

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Target sequence 77: AATGGAACGCCGAGGGACCT

[Blast search](#) (in new window)

Position in gene sequence: 1370

GC content: 61.9%

Sense strand siRNA: UGGAACGCCGAGGGACCUtt

Antisense strand siRNA: AGGUCCUCGGGCGUUCAtt

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Target sequence 78: AACGCCGAGGGACCTTTACG

[Blast search](#) (in new window)

Position in gene sequence: 1375

GC content: 61.9%

Sense strand siRNA: CGCCGAGGGACCUUACGtt

Antisense strand siRNA: CGUAAAGGUCCUCGGGCGGtt

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Target sequence 79: AATCCTGGAAACCATGACAAA

[Blast search](#) (in new window)

Position in gene sequence: 1400

GC content: 38.1%

Sense strand siRNA: UCCUGGAAACCAUGACAAAt

Antisense strand siRNA: UUUGUCAUGUUUCCAGGAtt

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USSN 10/738,413

EXHIBIT 1

Target sequence 80: AAACCATGACAAATCCAGAAC

Blast search (in new window)

Position in gene sequence: 1408

GC content: 38.1%

Sense strand siRNA: ACCAUGACAAUCCAGAACTt

Antisense strand siRNA: GUUCUGGAUUUGUCAUGGutt

View siRNA details

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View corresponding insert sequences for an siRNA expression vector (e.g., *pSilencer*™)

Target sequence 81: AAATCCAGAACCCCAAGGCTC

Blast search (in new window)

Position in gene sequence: 1418

GC content: 52.4%

Sense strand siRNA: AUCCAGAACCCCAAGGCUctt

Antisense strand siRNA: GAGCCUUGGGGUUCUGGAUtt

View siRNA details

View corresponding *Silencer*® siRNA Construction Kit Templates

View corresponding insert sequences for an siRNA expression vector (e.g., *pSilencer*™)

Target sequence 82: AACCCCAAGGCTCCCTCTCTC

Blast search (in new window)

Position in gene sequence: 1426

GC content: 61.9%

Sense strand siRNA: CCCCAGGCUCUCCUUCUctt

Antisense strand siRNA: GAAGAGGGGAGCCUUGGGGtt

View siRNA details

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View corresponding insert sequences for an siRNA expression vector (e.g., *pSilencer*™)

Target sequence 83: AAGGCTCCCTCTTCAGCTGA

Blast search (in new window)

Position in gene sequence: 1432

GC content: 57.1%

Sense strand siRNA: GGCUCUCCUUCUUCAGCUGatt

Antisense strand siRNA: UCAGCUGAAGAGGGGAGCctt

View siRNA details

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View corresponding insert sequences for an siRNA expression vector (e.g., *pSilencer*™)

Target sequence 84: AATTTGCTGAGTTGACCC

Blast search (in new window)

Position in gene sequence: 1458

GC content: 42.9%

Sense strand siRNA: UUUUGCCUGAGUUGACCCtt

Antisense strand siRNA: GGGUCAACUCAGGCAAAatt

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Target sequence 85: AATATGAATCTGGTTCCATGG

Blast search (in new window)

Position in gene sequence: 1479

GC content: 38.1%

USSN 10/738,413

EXHIBIT 1

Sense strand siRNA: UAUGAAUCUGGUUCCAUGGtt

Antisense strand siRNA: CCAU/GGAACCAGAUUCAUatt

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Target sequence 86: AATCTGTTCCATGGATAAG

Blast search (in new window)

Position in gene sequence: 1485

GC content: 38.1%

Sense strand siRNA: UCUGGUUCCAUGGAUAAAGtt

Antisense strand siRNA: CUUUAUCCAUGGAACCAGatt

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Target sequence 87: AAAGTGCCCAATTCAGCTTT

Blast search (in new window)

Position in gene sequence: 1502

GC content: 38.1%

Sense strand siRNA: AGCUGCCA AUUCAGCUUtt

Antisense strand siRNA: AAAGCUGAAAUUGGCAGCutt

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Target sequence 88: AATTTCAGCTTTAGAAATACA

Blast search (in new window)

Position in gene sequence: 1511

GC content: 23.8%

Sense strand siRNA: UUUCAGCUUUAGAAAUACatt

Antisense strand siRNA: UGUUUUUUCAAAGCUGAAAtt

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Target sequence 89: AAATACACTGGAAGGATTTC

Blast search (in new window)

Position in gene sequence: 1525

GC content: 38.1%

Sense strand siRNA: AUACACUGGAAGGAUUUGCtt

Antisense strand siRNA: GCAAAUCCUCCAGUGUAUtt

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Target sequence 90: AAGGATTGCTAGTCCACTTA

Blast search (in new window)

Position in gene sequence: 1536

GC content: 38.1%

Sense strand siRNA: GGAUUUGCUAGUCCACUAtt

Antisense strand siRNA: UAAUGUGACUAGCAAUCCtt

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USSN 10/738,413

EXHIBIT 1

Target sequence 91: AAGCAGCATGCACAATGCCT

Blast search (in new window)

Position in gene sequence: 1578

GC content: 47.6%

Sense strand siRNA: AGCAGCAUGCACAAGCCUtt

Antisense strand siRNA: AGGCAUUGUGCAUGCUGCUtt

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Target sequence 92: AATGCCTGCACATCTATATG

Blast search (in new window)

Position in gene sequence: 1592

GC content: 38.1%

Sense strand siRNA: UGCCUUGCACAUCUAUAUGtt

Antisense strand siRNA: CAUAUAGAUUGCAAGGCatt

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Target sequence 93: AATGGAACAATGTCCCAGGT

Blast search (in new window)

Position in gene sequence: 1613

GC content: 42.9%

Sense strand siRNA: UGGAACAAGUCCAGGUAtt

Antisense strand siRNA: UACCUGGGACAUGUUCAtt

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Target sequence 94: AACAAATGTCCAGGTACAGGG

Blast search (in new window)

Position in gene sequence: 1618

GC content: 52.4%

Sense strand siRNA: CAAUGUCCAGGUACAGGGtt

Antisense strand siRNA: CCCUGUACUGGGACAUGtt

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Target sequence 95: AATGTCCAGGTACAGGGATC

Blast search (in new window)

Position in gene sequence: 1621

GC content: 52.4%

Sense strand siRNA: UGUCCAGGUACAGGGAUctt

Antisense strand siRNA: GAUCCUGUACUGGGACAtt

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View corresponding insert sequences for an siRNA expression vector (e.g., *pSilencer*™)

Target sequence 96: AACGATCCTATCTCCTTCTT

Blast search (in new window)

Position in gene sequence: 1646

GC content: 38.1%

USSN 10/738,413

EXHIBIT 1

Sense strand siRNA: CGAUCCUAUCUCCUUCUUt

Antisense strand siRNA: AAGAAGGAAGUAGGAUCGtt

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View corresponding insert sequences for an siRNA expression vector (e.g., *pSilencer*™)

Target sequence 97: AAGGCACCGCTCTTCAAGA

Blast search (in new window)

Position in gene sequence: 1708

GC content: 52.4%

Sense strand siRNA: GGCACCGCUUCUUAAGAtt

Antisense strand siRNA: UCUUGAAGAGGACGGUGCctt

View siRNA details

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Target sequence 98: AAGAAGTTATCCAGAAGCCA

Blast search (in new window)

Position in gene sequence: 1725

GC content: 38.1%

Sense strand siRNA: GAAGUUAUCCAGAAGCCAtt

Antisense strand siRNA: UGGCUUCUGGAUAAACUctt

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View corresponding insert sequences for an siRNA expression vector (e.g., *pSilencer*™)

Target sequence 99: AAGTTTATCCAGAAGCCAATG

Blast search (in new window)

Position in gene sequence: 1728

GC content: 38.1%

Sense strand siRNA: GUUUAUCCAGAAGCCAAUGtt

Antisense strand siRNA: CAUUGGCUUCUGGAUAAACtt

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Target sequence 100: AAGCCAATGCACCATTTGGAC

Blast search (in new window)

Position in gene sequence: 1740

GC content: 52.4%

Sense strand siRNA: GCCAUGCACCCAUUGGACtt

Antisense strand siRNA: GUCCA AUGGGUGCAUUGGctt

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Target sequence 101: AATGCACCCATTGGACATAAC

Blast search (in new window)

Position in gene sequence: 1745

GC content: 42.9%

Sense strand siRNA: UGCACCCAUUGGACAUAActt

Antisense strand siRNA: GUUAUGUCCA AUGGGUGCAtt

View siRNA details

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USSN 10/738,413

EXHIBIT 1

Target sequence 102: AACCGGGAATCCTACATGGTT

Blast search (in new window)

Position in gene sequence: 1763

GC content: 47.6%

Sense strand siRNA: CCGGGAAUCCUACAUGGUUtt

Antisense strand siRNA: AACCAUGUAGGAUUCGCGtt

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View corresponding insert sequences for an siRNA expression vector (e.g., *pSilencer*™)

Target sequence 103: AATCCTACATGGTTCCTTTTA

Blast search (in new window)

Position in gene sequence: 1770

GC content: 33.3%

Sense strand siRNA: UCCUACAUGGUUCCUUUUatt

Antisense strand siRNA: UAAAAGGAACCAUGUAGGatt

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View corresponding insert sequences for an siRNA expression vector (e.g., *pSilencer*™)

Target sequence 104: AAATGGTGATTTCCTTATTTC

Blast search (in new window)

Position in gene sequence: 1804

GC content: 23.8%

Sense strand siRNA: AUGGUGAUUUUUUUUUUtt

Antisense strand siRNA: GAAAUAAAGAAUACCAUtt

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Target sequence 105: AAAGATCTGGGCTATGACTAT

Blast search (in new window)

Position in gene sequence: 1829

GC content: 38.1%

Sense strand siRNA: AGAUCUGGGCUAUGACUAtt

Antisense strand siRNA: AUAGUCAUAGCCAGAUcUtt

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Target sequence 106: AAGATTAGACCCAGACTCTT

Blast search (in new window)

Position in gene sequence: 1860

GC content: 42.9%

Sense strand siRNA: GAUUCAGACCCAGACUCUtt

Antisense strand siRNA: AAGAGUCUGGGUCUGAAUcUtt

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Target sequence 107: AAGACTACATTAAGTCCTATT

Blast search (in new window)

Position in gene sequence: 1884

GC content: 28.6%

USSN 10/738,413

EXHIBIT 1

Sense strand siRNA: GACUACAUUAAGUCCUAUUt

Antisense strand siRNA: AAUAGGACUUAUUGUAGUCtt

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Target sequence 108: AAGTCTATTGGACAAGCG

[Blast search](#) (in new window)

Position in gene sequence: 1895

GC content: 42.9%

Sense strand siRNA: GUCCUAUUUGGAACAAGCGtt

Antisense strand siRNA: CGCUUGUCCAAAUAGGACtt

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Target sequence 109: AACAGCGAGTCGGATCTGTT

[Blast search](#) (in new window)

Position in gene sequence: 1908

GC content: 52.4%

Sense strand siRNA: CAAGCGAGUCGGAUCUGGtt

Antisense strand siRNA: ACCAGAUCGCACUCGCUUGtt

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Target sequence 110: AAGCGAGTCGGATCTGTCAT

[Blast search](#) (in new window)

Position in gene sequence: 1911

GC content: 52.4%

Sense strand siRNA: GCGAGUCGGAUCUGGUCAUtt

Antisense strand siRNA: AUGACCAGAUCGCACUCGtt

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Target sequence 111: AAGAGAAAGCAGCTTCTGAA

[Blast search](#) (in new window)

Position in gene sequence: 2009

GC content: 42.9%

Sense strand siRNA: GAGAAAGCAGCUUCCUGAAtt

Antisense strand siRNA: UUCAGGAAGCUGCUUUCUtt

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Target sequence 112: AAAGCAGCTTCTGAGAAAA

[Blast search](#) (in new window)

Position in gene sequence: 2014

GC content: 38.1%

Sense strand siRNA: AGCAGCUUCCUGAAGAAAAtt

Antisense strand siRNA: UUUUCUUCAGGAAGCUGCUtt

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USSN 10/738,413

EXHIBIT 1

Target sequence 113: AAGAAAAGCAGCCACTCCTCA

Blast search (in new window)

Position in gene sequence: 2028

GC content: 47.6%

Sense strand siRNA: GAAAAGCAGCCACUCCUcatt

Antisense strand siRNA: UGAGGAGUGGCUGCUUUUcTt

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Target sequence 114: AAAAGCAGCCACTCCTCATGG

Blast search (in new window)

Position in gene sequence: 2031

GC content: 52.4%

Sense strand siRNA: AAGCAGCCACUCCUcAUGGt

Antisense strand siRNA: CCAUGAGGAGUGGCUGCUUtt

View siRNA details

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View corresponding insert sequences for an siRNA expression vector (e.g., *pSilencer™*)

Target sequence 115: AAGCAGCCACTCCTCATGGAG

Blast search (in new window)

Position in gene sequence: 2033

GC content: 57.1%

Sense strand siRNA: GCAGCCACUCCUcAUGGAGt

Antisense strand siRNA: CUCCAUGAGGAGUGGCUGCtt

View siRNA details

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View corresponding insert sequences for an siRNA expression vector (e.g., *pSilencer™*)

Target sequence 116: AAAGAGGATTACCACAGCTTG

Blast search (in new window)

Position in gene sequence: 2054

GC content: 42.9%

Sense strand siRNA: AGAGGAUUACCACAGCUUGt

Antisense strand siRNA: CAAGCUGUGGUAUCCUCUtt

View siRNA details

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View corresponding insert sequences for an siRNA expression vector (e.g., *pSilencer™*)

Target sequence 117: AAAAGGCTTAGGCAATAGAGT

Blast search (in new window)

Position in gene sequence: 2091

GC content: 38.1%

Sense strand siRNA: AAGGCUUAGGCAAUAGAGUtt

Antisense strand siRNA: ACUCUAUUGCCUAAGCCUUt

View siRNA details

View corresponding *Silencer®* siRNA Construction Kit Templates

View corresponding insert sequences for an siRNA expression vector (e.g., *pSilencer™*)

Target sequence 118: AAGGCTTAGGCAATAGAGTAG

Blast search (in new window)

Position in gene sequence: 2093

GC content: 42.9%

USSN 10/738,413

EXHIBIT 1

Sense strand siRNA: GGCUUAGGCCAAUAGAGUAGtt

Antisense strand siRNA: CUACUCUUAUUGCCUAAAGCct

View siRNA details

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View corresponding insert sequences for an siRNA expression vector (e.g., p*Silencer*™)

Target sequence 119: AATAGAGTAGGGCCAAAAGC

Blast search (in new window)

Position in gene sequence: 2104

GC content: 42.9%

Sense strand siRNA: UAGAGUAGGGCCAAAAGCtt

Antisense strand siRNA: GCUUUUUGCCCUACUCUatt

View siRNA details

View corresponding *Silencer*® siRNA Construction Kit Templates

View corresponding insert sequences for an siRNA expression vector (e.g., p*Silencer*™)

Target sequence 120: AAAAGCCTGACCTCACTCTA

Blast search (in new window)

Position in gene sequence: 2118

GC content: 42.9%

Sense strand siRNA: AAAGCCUGACCUCACUCUatt

Antisense strand siRNA: UAGAGUGAGGUCAGGCUUUtt

View siRNA details

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Target sequence 121: AAAGCCTGACCTCACTCTAAC

Blast search (in new window)

Position in gene sequence: 2120

GC content: 47.6%

Sense strand siRNA: AGCCUGACCUCACUCUAActt

Antisense strand siRNA: GUUAGAGUGAGGUCAGGCCUtt

View siRNA details

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View corresponding insert sequences for an siRNA expression vector (e.g., p*Silencer*™)

Target sequence 122: AACTCAAAGTAATGTCCAGGT

Blast search (in new window)

Position in gene sequence: 2138

GC content: 38.1%

Sense strand siRNA: CUCAAAGUAAUGUCCAGGutt

Antisense strand siRNA: ACCUGGACAUUACUUUGAgtt

View siRNA details

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Target sequence 123: AAAGTAATGTCCAGGTCCCA

Blast search (in new window)

Position in gene sequence: 2143

GC content: 42.9%

Sense strand siRNA: AGUAAUGUCCAGGUUCCctt

Antisense strand siRNA: UGGGAACCUAGGACAUUACUtt

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EXHIBIT 1

Target sequence 124: AATGYCCAGGTGCCAGAGAA

Blast search (in new window)

Position in gene sequence: 2148

GC content: 47.6%

Sense strand siRNA: UGUCCAGGUUCCAGAGAAtt

Antisense strand siRNA: UUCUCUGGGAACCUGGACAtt

View siRNA details

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Target sequence 125: AATATCTGCTGGTATTTTCT

Blast search (in new window)

Position in gene sequence: 2167

GC content: 28.6%

Sense strand siRNA: UAUCUGCUGGUUUUUUCttt

Antisense strand siRNA: AGAAAAUACCAGCAGAUAtt

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Target sequence 126: AAGACCATTTCGAAAATTGT

Blast search (in new window)

Position in gene sequence: 2190

GC content: 28.6%

Sense strand siRNA: AGACCAUUUGCAAAUUUGttt

Antisense strand siRNA: ACAAUUUUGCAAUUGGUCttt

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Target sequence 127: AAAATTGTAACCTAATACAAA

Blast search (in new window)

Position in gene sequence: 2203

GC content: 19%

Sense strand siRNA: AAUUGUAACCUAAUACAAAtt

Antisense strand siRNA: UUUGUAUUAGGUUACAAUttt

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Target sequence 128: AATTGTAACCTAATACAAAGT

Blast search (in new window)

Position in gene sequence: 2205

GC content: 23.8%

Sense strand siRNA: UUGUAACCUAAUACAAAGttt

Antisense strand siRNA: ACUUUGUAUUAGGUUACAAtt

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Target sequence 129: AACCTAATACAAAGTGATGCC

Blast search (in new window)

Position in gene sequence: 2211

GC content: 38.1%

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Sense strand siRNA: CCUAAUACAAGUGUAGCctt

Antisense strand siRNA: GGCUACACUUUGUAUAGGtt

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Target sequence 130: AATACAAAGTGTAGCCTTCTT

Blast search (in new window)

Position in gene sequence: 2216

GC content: 33.3%

Sense strand siRNA: UACAAAGUGUAGCCUUCUtt

Antisense strand siRNA: AAGAAGGCUACACUUUGAAtt

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Target sequence 131: AAGTGTAGCCTTCTTCCAAC

Blast search (in new window)

Position in gene sequence: 2221

GC content: 42.9%

Sense strand siRNA: AGUGUAGCCUUCUCCAACtt

Antisense strand siRNA: GUUGGAAGAAGGCUACACUtt

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Target sequence 132: AACTCAGTAGAACACACCTG

Blast search (in new window)

Position in gene sequence: 2239

GC content: 47.6%

Sense strand siRNA: CUCAGGUAGAACACACCUgtt

Antisense strand siRNA: CAGGUGUGUUCUACCUGAGtt

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Target sequence 133: AACACACGTGCTTTGTCTTG

Blast search (in new window)

Position in gene sequence: 2250

GC content: 42.9%

Sense strand siRNA: CACACCUGUCUUGUCUUGtt

Antisense strand siRNA: CAAGACAAAGACAGGUGUGtt

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Target sequence 134: AACATTTCCCTAAGCCCAT

Blast search (in new window)

Position in gene sequence: 2292

GC content: 42.9%

Sense strand siRNA: CAUUUCCCCUAAGCCCAUtt

Antisense strand siRNA: AUGGGCUUAGGGAAAAUGtt

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Target sequence 135: AAGCCCATATGTCTAAGGAAA

Blast search (in new window)

Position in gene sequence: 2305

GC content: 38.1%

Sense strand siRNA: GCCCAUAUGUCUAAAGGAAAt

Antisense strand siRNA: UUUCCUAGACAU AUGGCGtt

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Target sequence 136: AAGGAAGGATGCTATTGGT

Blast search (in new window)

Position in gene sequence: 2319

GC content: 38.1%

Sense strand siRNA: GGAAAGGAUGCUAUUUGGt

Antisense strand siRNA: ACCAAUAGCAUCCUUCtt

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Target sequence 137: AAGGATGCTATTGGTAATG

Blast search (in new window)

Position in gene sequence: 2323

GC content: 33.3%

Sense strand siRNA: AGGAUGCUAUUUGGUAUGtt

Antisense strand siRNA: CAUUAACAAUAGCAUCCtt

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Target sequence 138: AATGAGGAAGTGTATTGTGA

Blast search (in new window)

Position in gene sequence: 2340

GC content: 28.6%

Sense strand siRNA: UGAGGAACUGUUAUUUGUAtt

Antisense strand siRNA: UACAAUAAACAGUCCUCAtt

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Target sequence 139: AACTGTATTGTATGTGAAT

Blast search (in new window)

Position in gene sequence: 2347

GC content: 23.8%

Sense strand siRNA: CUGUUAUUUGUAUGUGAAUtt

Antisense strand siRNA: AUUCACAUACAAUACAGtt

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